



## CMF / CRF Details

**CMF ID: 539**

**Active work with no lane closure (compared to no work zone)**

**Description:**

**Prior Condition:** *No Prior Condition(s)*

**Category:** Work zone

**Study:** [Traffic Safety Evaluation of Daytime and Nighttime Work Zones, Ullman et al., 2008](#)

Star Quality Rating:



### Crash Modification Factor (CMF)

**Value:** 1.29

**Adjusted Standard Error:**

**Unadjusted Standard Error:** 0.21

### Crash Reduction Factor (CRF)

**Value:** -29 (This value indicates an **increase** in crashes)

**Adjusted Standard Error:**

<b>Unadjusted Standard Error:</b>	21
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### Applicability

<b>Crash Type:</b>	Nighttime
<b>Crash Severity:</b>	All
<b>Roadway Types:</b>	Principal Arterial Other Freeways and Expressways
<b>Number of Lanes:</b>	
<b>Road Division Type:</b>	
<b>Speed Limit:</b>	
<b>Area Type:</b>	Not specified
<b>Traffic Volume:</b>	
<b>Time of Day:</b>	

*If countermeasure is intersection-based*

<b>Intersection Type:</b>	
<b>Intersection Geometry:</b>	
<b>Traffic Control:</b>	
<b>Major Road Traffic Volume:</b>	
<b>Minor Road Traffic Volume:</b>	

### Development Details

<b>Date Range of Data Used:</b>	
<b>Municipality:</b>	
<b>State:</b>	

<b>Country:</b>	
<b>Type of Methodology Used:</b>	Before/after using empirical Bayes or full Bayes
<b>Sample Size Used:</b>	

<b>Other Details</b>	
<b>Included in Highway Safety Manual?</b>	No
<b>Date Added to Clearinghouse:</b>	Dec-01-2009
<b>Comments:</b>	

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